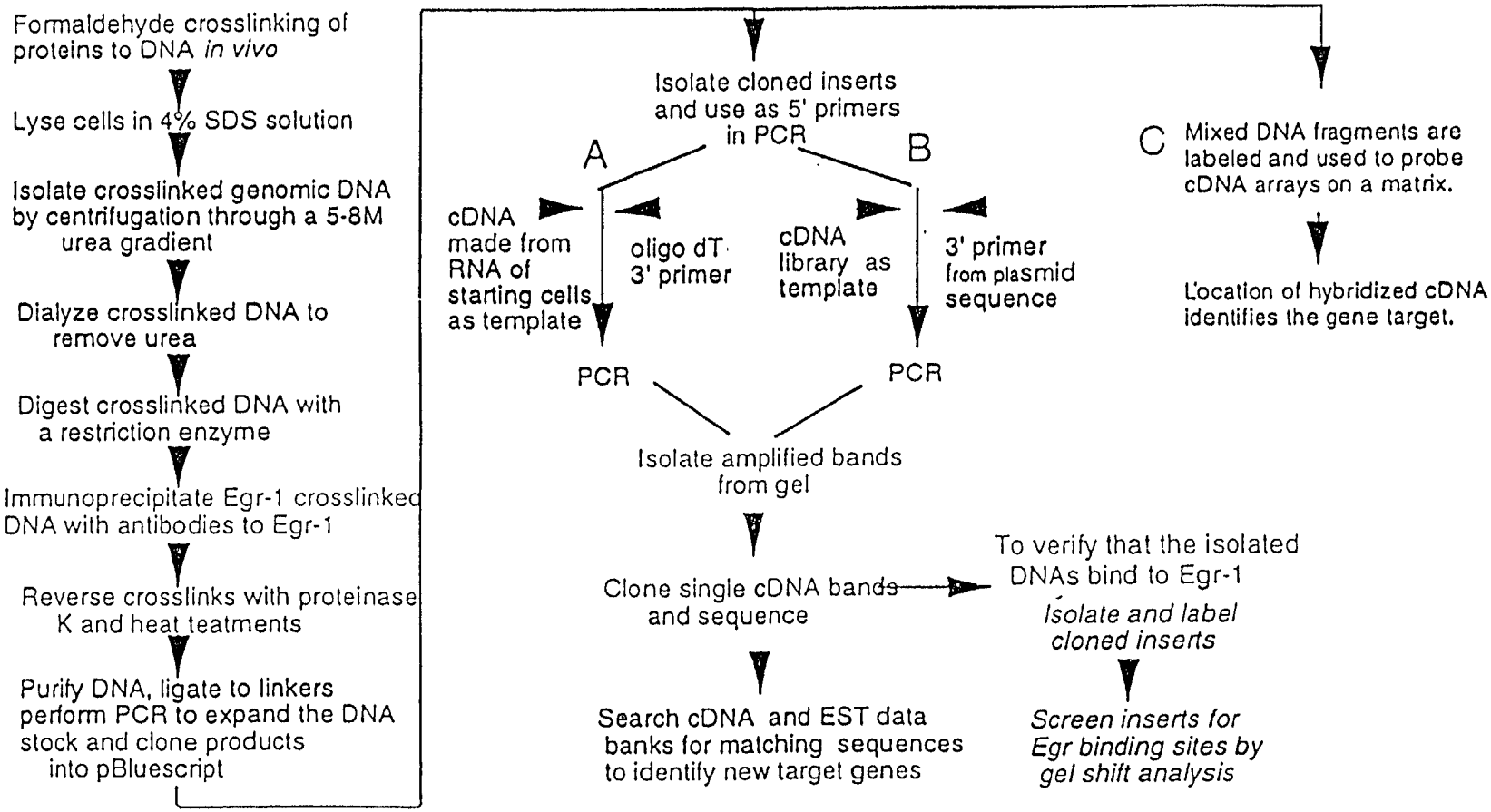

FIG. 1

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FIG. 2

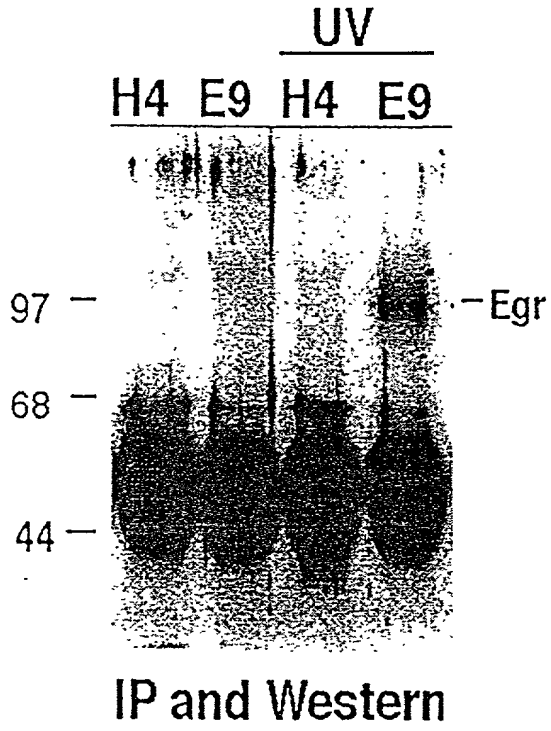

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FIG. 3

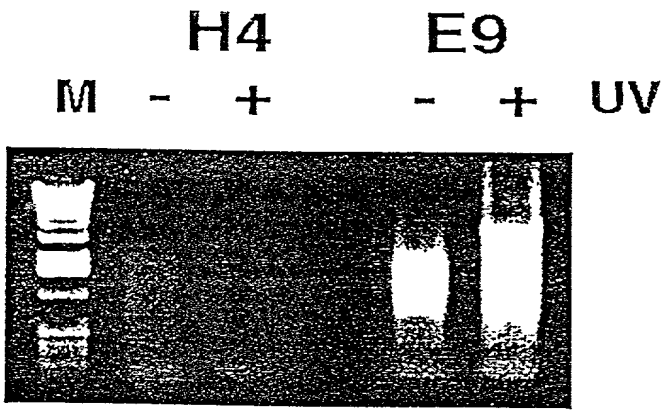


FIG. 4

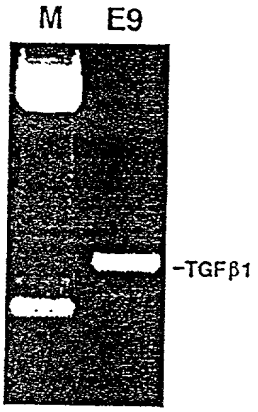
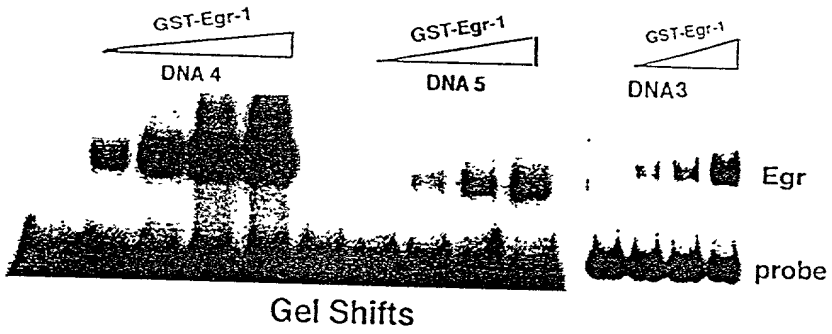


FIG. 5



Gel Shifts

FIG. 6

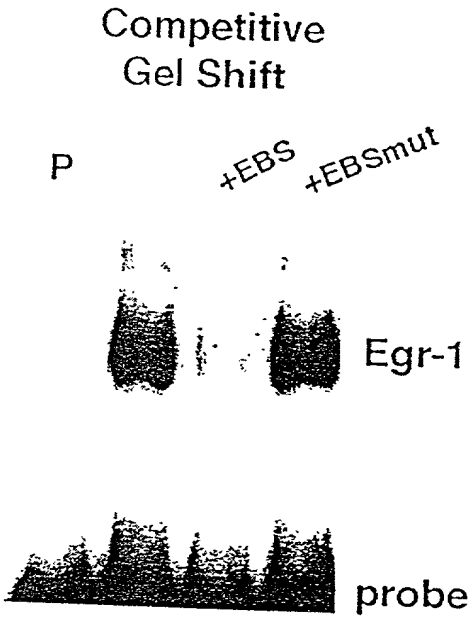


FIG. 7

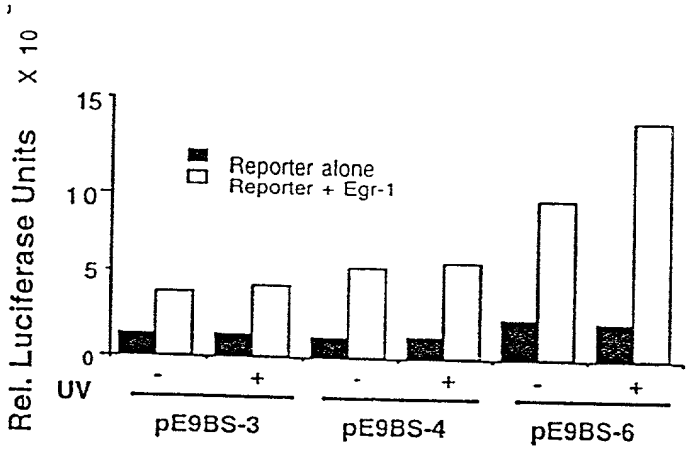

Rel. Luciferase Units X 10
15
10
5
0
Reporter alone
Reporter + Egr-1
UV
-
+
-
+
-
+
pE9BS-3
pE9BS-4
pE9BS-6

FIG. 8

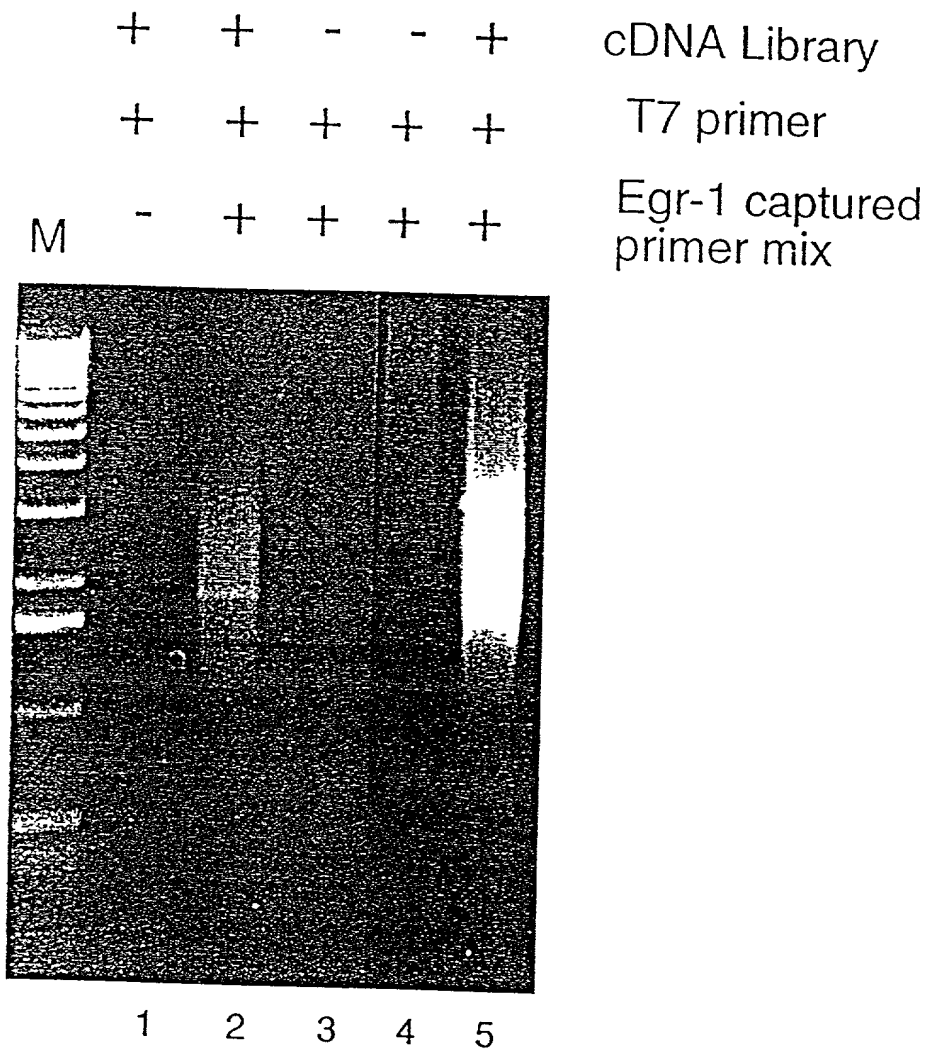


FIG. 9

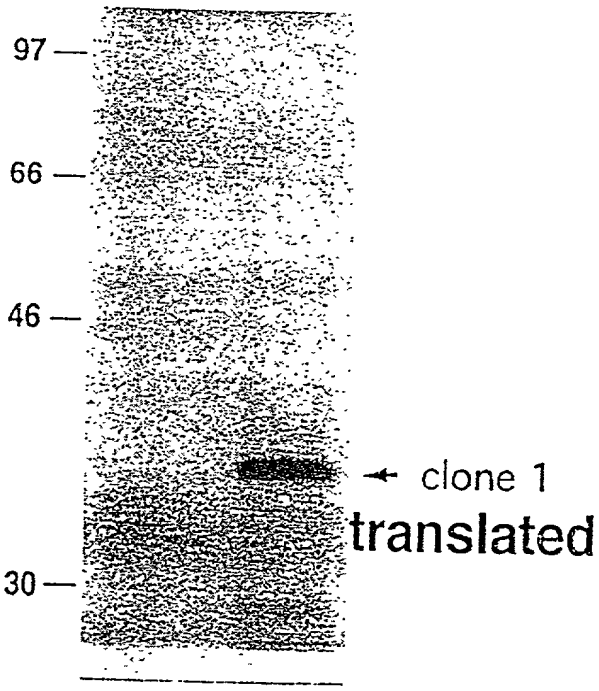


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FIG. 10

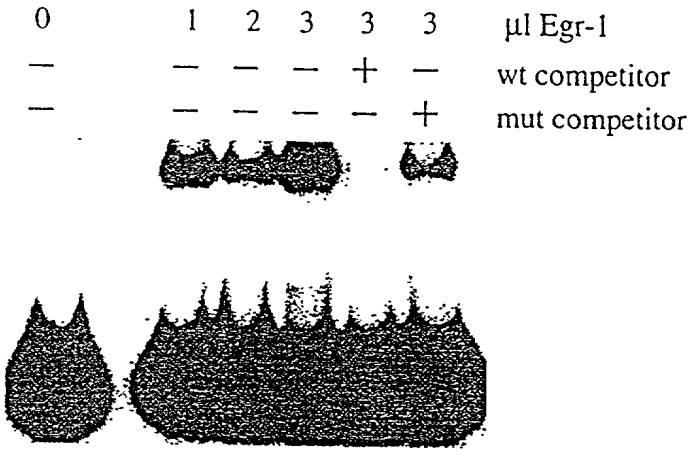

FIG. 11

Clone 1 nucleotide sequence

TAATACGACTCACTATAGGGAGACGAGCGGTGTCATGGCCGCCGACAGTGACG
ATGGCGCAGTTTCAGCTCCCGCAGCTTCCGACGGTGGTGTCAGCAAAAGCACA
ACATCTGGGGAGGAGCTAGTAGTCCAGGTTCCCGTAGTGGATGTGCAAAGCAA
CAACTTCAAGGAGATGTGGCCATCCCTCCTGCTAGCCATAAAGACAGCTAATTT
CGTTGGCTGTGGACACGGAGCTGAGTGGGCTTGGGGACAAGAAGAGTTTGCT
GAACCAGTGCATTGAGGAACGTTACAAGGCCGTGTGTCATGCTGCCAGGACCC
GTTCTATCCTTTCCCTGGGCCTCGCCTGCTTCAAGCGGCAGCCAGACAAGGGT
GAACATTCCTATCTGGCTCAAGTGTTCAATCTCACTCTGCTGTGCATGGAGGAG
TATGTCATAGAACCAAAGTCTGTGCAGTTCCTGATACAGCATGGCTTCAACTTC
AACCAGCAGTATGCCCAAGGCATCCCCTACCATAAGGGCAATGACAAGGG
TGATGAGAGCCAGAGCCAGTCAGTACGGACCCTATTCCTGGAGCTAA
TCCGAA*GCCCGCCGGCCCC*TGTTGCTACACAATGGCCTTATAGACTTG
GTGTTCCTGTACCAAAACTTCTATGCACACCTCCCTGAGAGTCTGGGA
ACCTTCACCGCTGACCTCTGTGAGATGTTCCCAGCAGGCATTTATGACAC
CAAATATGCTGCTGAGTTTCATGCCCGTTTCGTGGCCTCCTACTTAGAATATGC
CTTCCGGAAATGTGTTTTAGGTGCTGAGGATTCAGCAGTGAACAAAACAGACC
ACAAAACCCTGCTCTTATGGAGCTTATATGCTAGTGGACCATTACCCTCTTGCG
CTGTTGCAGTGAACGGGAAAATGGGAAGCAGCGGGCAGCTGGCAGCCCACAC
CTTACCCTGGAGTTCTGCAACTATCCTTCCAGCATGAGGGACCATATTGATTAC
CGCTGCTGCCTGCCCCCAGCAACCCACCGTCCTCATCCCACCAGCATCTGTGAC
AACTTCTCGGCTTATGGCTGGTGCCCCCTGGGACCACAGTGTCCTCAGTCTCAC
GATATTGACCCTATCATTGACACTGATGAGGCTGCGGCAGAGGACAAGCGGCG
ACGGCGACGACGTAGGGAAAAACGGAAGAGGGCTTTATTGAACCTACCGGGG
ACACAGACCTCTGGGGAAGCTAAGGATGGTCCTCCCAAGAAGCAGGTCTGTGG
GGATAGCATCAAGCCTGAAGAAACCGAGCAGGAGGTGGCTGCCGATGAAACT
AGGAACCTGCCTCACTCCAAGCAAGGCAACAAAAATGACTTAGAGATGGGGAT
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GCCAAGCCAGTCCTAACCCAGTGCCTGGGGGTGGATTGCACCGGGCTGGTTTT
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GCAACCCTGCAGCTCTGGACCCTGGCTCCCTGAATGCCACAATAAGGTATATTT
GAGTGGCAAAGCTGTACCCCTCACAGTGGCCAAGAGCCAGTTCTCTCGTTCCT
CCAAAGCCCACAATCAGAAGATGAAGCTCACTTGGGGCAGTAGCTGATGCAAC
TTCCACCTTGCTCTCAGGTGGAACAGAGGTATTTTGGGTCTCTCTAGCCTGAAA
TGTCATCCTCAACTGCTACTGAGTTTGGGGGAGGGGGAATGTCTTGACAGACA
TCACTGCATTGCCCTGGACCGCCTCCTTTATCCCAGTGTTTGAGGTACAAGTAA
GAAGGCTGACCAGCACCTGTAACACTGACTTTATTTTTAAGTCTGAAAATGTCTT
GGGAAAGTTTTACAAAAAAAAAAAATCAACAGAAGCAAGTTATGAAAAAAAAAAA
AAAAAAAAAACTCGAGGGGGGGCCCGGTACCCAATTCTCCCTATAGTGAGTCG
TATTA

FIG. 12

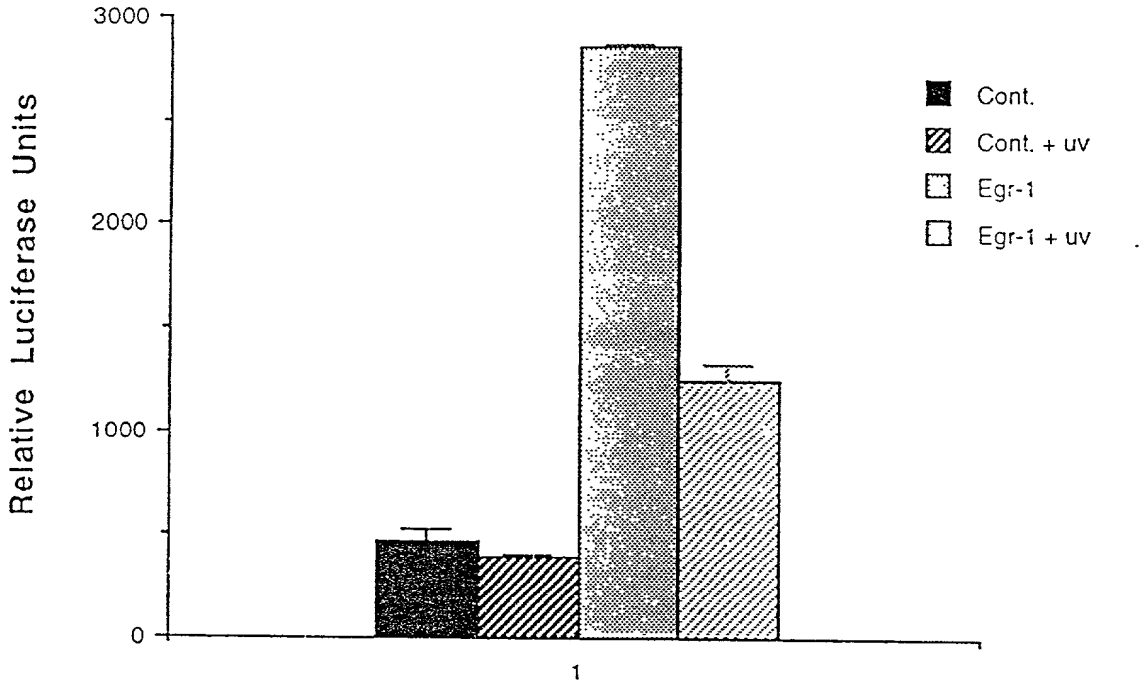
Relative Luciferase Units
3000
2000
1000
0
1
Cont.
Cont. + uv
Egr-1
Egr-1 + uv

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FIG. 13

FIG. 14

TOE1 Protein sequence

MAADSDDGAVSAPAASDGGVSKSTTSGEELVVQVPVVDVQSNNFKEMWPSLLL
AIKTANFVAVDTELSGLGDRKSLLNQCIEERYKAVCHAARTRSILSLGLACFKRQ
PDKGEHSYLAQVFNLTLLCMEEYVIEPKSVQFLIQHGFNFNQQYAQGIPYHKGN
DKGDESQSQSVRTLFLELIRARRPLVLHNGLIDLVFLYQNFYAHLPESLGTFTADL
CEMFPAGIYDTKYAAEFHARFVASYLEYAFRKCERENGKQRAAGSPHLTLEFCN
YPSSMRDHIDYRCCLPPATHRPHPTSICDNFSAYGWCPLGPQCPQSHDIDLIIDTD
EAAAEDKRRRRRRREKRKRALLNLPGTQTSGEAKDGPPKKQVCGDSIKPEETEQ
EVAADETRNLPHSKQGNKNDLEMGIKAARPEIADRATSEVPGSQASPNPVPGGG
LHRAGFDAFMTGYVMAYVEVSQGPQPCSSGPWLPECHNKVYLSGKAVPLTVAK
SQFSRSSKAHNQKMKLTWGSS

TOE1 DNA sequence

agcttatattctaatggggacagaaaaggaataatgaacataagtaaattccataagatgttaggtgataaatattagca
taaaaagcaaaaattagaccaagaggggaaaaaaaagagtgccaaggtggggtttaatgttgcaatttaaagactgtgg
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gagggtcacaaagtaccttataggccattggagggatttggctgccacacccttgctcttagaaggcagtcctcttactacagcctt
gcaggtccagtgatccgggcaccatccgcctcatcccctcactatgctctagccaaggttgactgaatttagttgcttaaacacctc
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tcttgactgaaatgtccaaatcaggtcccctcatcttatcctatcacatatttctgccttgtagctcttacctaatgtaatttttacattacttt
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gcgtcaccttctctggaaagcccaaacccagccaccccactacccgctacccgcggcccacgctgatgaagacagcagaac
acggaggccccgcgttcccgccgcgagagcaggagagaaagattacctcccgcgagctctagcgcgcccggctttccggc

FIG. 14 Cont.

gcactccaggggcgtggctcgggtccacccgggctgcgagccggcagcacaggccaataggcaattagcgcgcgccagg
ctgccttccccgcgccggacccgggacgtctgaacggaagttcgacccatcggcgacccgacggcgagaccccgccccat
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CGGTGGTGTCAGCAAAAGCACAACATCTGGGGAGGAGCTAGTAGTCCAGGTT
CCCGTAGTGGATGTGCAAAGCAACAACTTCAAGGAGATGTGGCCATCCCTCC
TGCTAGCCATAAAGACAGCTAATTTCGTGGCTGTGGACACGGAGCTGAGTGG
GCTTGGGGACAGGAAGAGTTTGCTGAACCAGTGCATTGAGGAACGTTACAAG
GCCGTGTGTCATGCTGCCAGGACCCGTTCTATCCTTTCCCTGGGCCTCGCCTG
CTTCAAGCGGCAGCCAGACAAGGGTGAACATTCCTATCTGGCTCAAGTGTTC
AATCTCACTCTGCTGTGCATGGAGGAGTATGTCATAGAACCAAAGTCTGTGC
AGTTCCTGATACAGCATGGCTTCAACTTCAACCAGCAGTATGCCCAAGGCAT
CCCCTACCATAAGGGCAATGACAAGGGTGATGAGAGCCAGAGCCAGTCAGT
ACGGACCCTATTCCTGGAGCTAATCCGAGCCCGCCGGCCCCTGGTGCTACAC
AATGGCCTTATAGACTTGGTGTTCCTGTACCAGAACTTCTATGCACACCTCCC
TGAGAGTCTGGGAACCTTCACCGCTGACCTGTGTGAGATGTTCCCAGCAGGC
ATTTATGACACCAAATATGCTGCTGAGTTTCATGCCCGTTTCGTGGCCTCCTA
CTTAGAATATGCCTTCCGGAAATGTGAACGGGAAAATGGGAAGCAGCGGGC
AGCTGGCAGCCCACACCTTACCCTGGAGTTCTGCAACTATCCTTCCAGCATGA
GGGACCATATTGATTACCGCTGCTGCCTGCCCCCAGCAACCCACCGTCCTCAT
CCCACCAGCATCTGTGACAACTTCTCGGCTTATGGCTGGTGCCCCCTGGGACC
ACAGTGTCCTCAGTCTCACGATATTGACCTTATCATTGACACTGATGAGGCTG
CGGCAGAGGACAAGCGGCGACGGCGACGACGTAGGGAAAAACGGAAGAGG
GCTTTATTGAACCTACCGGGGACACAGACCTCTGGGGAAGCTAAGGATGGTC
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ACAAAAATGACTTAGAGATGGGGATTAAGGCAGCAAGGCCTGAAATAGCTG
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TGGCCTATGTGGAAGTGAGCCAGGGACCGCAACCCTGCAGCTCTGGACCCTG
GCTCCCTGAATGCCACAATAAGGTATATTTGAGTGGCAAAGCTGTACCCCTC
ACAGTGGCCAAGAGCCAGTTCTCTCGTTCCTCCAAAGCCCACAATCAGAAGA
TGAAGCTCACTTGGGGCAGTAGCTGA